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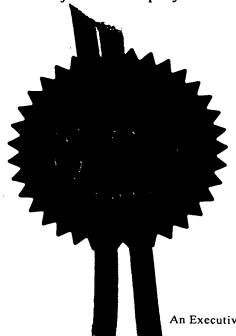
GB99/2620

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein.

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Dated 5 November 1999

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**Patent Office** 

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The Patent Office

Cardiff Road Newport Gwent NP9 1RH

Request for 2 (see the notes on the book of this form. You can also get

an explanatory leaflet from the Patent Office to help you fill in this form)

ı. Your reference PBA/D088221PGB

Patent application number 2. (The Patent Office will fill in this part)

## 9818156.3

Full name, address and postcode of the or of 3. each applicant (underline all surnames)

THERAMARK LIMITED 90 FETTER LANE LONDON EC4A 1JP

Patents ADP number (if you know it)

074975/4001 UNITED KINGDOM

If the applicant is a corporate body, give the country/state of its incorporation

Title of the invention 4.

DRUG TARGETING III

Name of your agent (if you have one)

Marks & Clerk

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Sussex House 83-85 Mosley Street Manchester M2 3LG

Patents ADP number (if you know it)

18004

If you are declaring priority from one or more 6. earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number Date of filing (If you know it) (day/month/year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing (day/month/year)

Is a statement of Inventorship and of right 8. to grant of a patent required in support of this request? (Answer 'Yes' if:

YES

- a) any applicant named in part 3 is not an inventor. or
- b) there is an inventor who is not named as an applicant, or
- c) any named applicant is a corporate body. See note (d))

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9. Enter the number of sheets for any of the following items you are filling with this form.

Do not count copies of the same document

Description
Claim(s)

Abstract

Drawing(s)

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of Inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (Please specify)

I/We request the grant of a patent on the basis of this application.

Signature

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Date

20/08/98

 Name and daytime telephone number of person to contact in the United Kingdom

MR. P.B. ATKINSON - 0161 236 2275

## Warning

11.

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## Notes

a) If you need help to fill in this form or you have any questions, please contact the Patent Office on 0645 500505.

b) Write your answers in capital letters using black ink or you may type them.

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d) If you have answered 'Yes' Patents Form 7/77 will need to be filed.

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## DRUG TARGETING III

The present invention relates to bioreductive drug conjugates for use in targeting of therapeutic agents to localised regions of hypoxic and/or ischemic tissue within the body.

This application is supplemental to our copending U.K. patent applications filed 19th August 1998 entitled Drug Targeting I and Drug Targeting II.

According to a first aspect of the present invention we provide bioreductive conjugates per se comprising bioreductive moieties as disclosed in either of the aforementioned applications and a therapeutic agent as specifically disclosed in either application.

Thus, in accordance with the present invention, we provide per se protection for bioreductive conjugates incorporating therapeutic agents as disclosed in the aforementioned applications. These conjugates of the first aspect of the invention may be used for the particular therapeutic application for which they are disclosed in the aforementioned applications, or as appropriate for any other therapeutic application as disclosed in the aforementioned applications, or as appropriate for any other therapeutic application.

In accordance with a second aspect of the present invention there is provided bioreductive conjugates comprising a bioreductive moiety as disclosed in either of the aforementioned applications in conjunction with a therapeutic agent which is selected from immunosupressives, cell cycle specific drugs, cell cycle non-specific drugs, metalloprotease inhibitors and inhibitors of nitric oxide synthase.

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The conjugates of this second aspect may be used as appropriate for any therapeutic application as disclosed in the aforementioned applications, or as appropriate for any other therapeutic application.

In the case where the therapeutic agent is an immunosupressive, the bioreductive conjugate may be used in transplant surgery. The immunosupressive may, for example, be cyclosporin A.

Examples of cell cycle specific and cell cycle non-specific drugs include hormones and hormone analogues, anti-angiongenic, (e.g. endostatin, angiostatin), vascular targeted drugs (e.g. combreastatin), metalloprotease inhibitors.

The treatment of periodontitis as contemplated in either of the aforementioned applications may be effected using a bioreductive conjugate for which the therapeutic agent is a metalloprotease inhibitor.

The treatment of sepsis as contemplated in either of the aforementioned applications may be effected with an inhibitor of nitric oxide synthase.